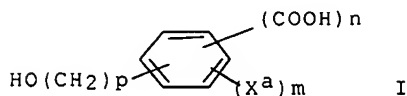


L31 ANSWER 8 OF 66 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:977900 HCAPLUS Full-text
 DOCUMENT NUMBER: 138:56862
 TITLE: Plasticizer for polyester resins and polyester compositions with good flexibility, transparency, and heat resistance
 INVENTOR(S): Tsuchihashi, Masaaki; Takenaka, Akira
 PATENT ASSIGNEE(S): Kao Corporation, Japan
 SOURCE: PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: **Patent**
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102897	A1	20021227	WO 2002-JP5919	20020613 <--
W: CN, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
JP 2002363390	A	20021218	JP 2001-178171	20010613 <--
JP 2003003051	A	20030108	JP 2001-189315	20010622 <--
JP 2003160719	A	20030606	JP 2001-362133	20011128 <--
EP 1403322	A1	20040331	EP 2002-736089	20020613 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
JP 2004002602	A	20040108	JP 2002-204316	20020712 <--
JP 3749203	B2	20060222		
US 2006183832	A1	20060817	US 2004-478847	20040604 <--
PRIORITY APPLN. INFO.:			JP 2001-178171	A 20010613 <--
			JP 2001-189315	A 20010622 <--
			JP 2001-215703	A 20010716 <--
			JP 2001-362133	A 20011128 <--
			JP 2002-117232	A 20020419 <--
			WO 2002-JP5919	W 20020613 <--
OTHER SOURCE(S):		MARPAT 138:56862		
GI				



AB The invention provides (A) a plasticizer for amorphous polyester resin which can impart flexibility to the resin without impairing the transparency inherent in the resin and (B) an amorphous polyester resin composition, where plasticizer is an ester prepared from a component selected from aromatic hydroxycarboxylic acids I, condensed polycyclic aromatic hydroxycarboxylic acids, and alicyclic hydroxycarboxylic acids and a component selected from aliphatic alcs., alicyclic alcs., aromatic alcs., phenols, alkylphenyls, and their alkylene oxide adducts, wherein Xa = H, OH, C1-22 alkyl, alkenyl, alkoxy, or halogen; n, m = ≥ 1 integer; n + m = 5; and p = 0-3 integer. Thus,

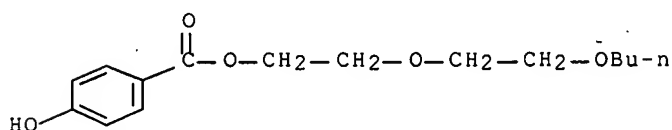
a composition comprising Tsunami GS 2 amorphous polyester 100, montanic acid wax 0.8, and 2-hydroxyhexyl p-hydroxybenzoate 20 parts was kneaded at 165° for 15 min and press-molded at 190° to give a 1 mm-thick test piece with 100% modulus 7.6 MPa, haze 2.0%, no bending whitening, and no plasticizer bleeding initially, and 100% modulus 7.5 MPa, haze 2.0%, and no plasticizer bleeding after heat treatment at 60° for 1 wk.

IT 86877-08-9, Diethylene glycol butyl ether p-hydroxybenzoate
212385-98-3, Diethylene glycol 2-ethylhexyl ether
p-hydroxybenzoate 478866-54-5, Diethylene glycol 2-ethylhexyl
ether salicylate 478866-57-8

RL: MOA (Modifier or additive use); USES (Uses)
(plasticizer; polyester compns. with good flexibility, transparency,
and heat resistance containing plasticizers)

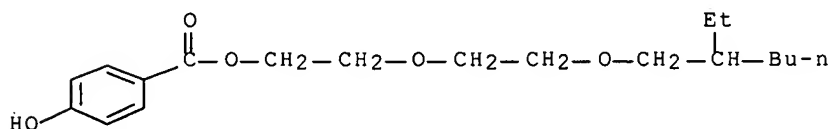
RN 86877-08-9 HCAPLUS

CN Benzoic acid, 4-hydroxy-, 2-(2-butoxyethoxy)ethyl ester (9CI) (CA INDEX
NAME)



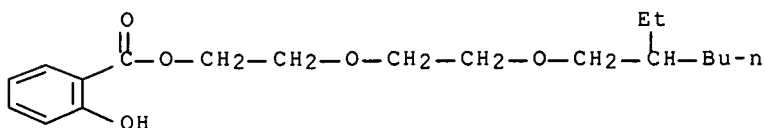
RN 212385-98-3 HCAPLUS

CN Benzoic acid, 4-hydroxy-, 2-[2-[(2-ethylhexyl)oxy]ethoxy]ethyl ester (9CI)
(CA INDEX NAME)



RN 478866-54-5 HCAPLUS

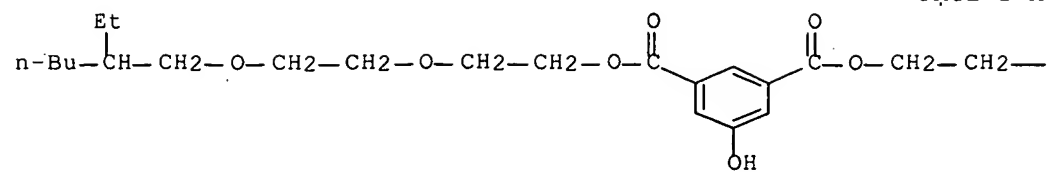
CN Benzoic acid, 2-hydroxy-, 2-[2-[(2-ethylhexyl)oxy]ethoxy]ethyl ester (9CI)
(CA INDEX NAME)



RN 478866-57-8 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-hydroxy-, bis[2-[2-[(2-ethylhexyl)oxy]ethoxy]ethyl] ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

